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Relevance scale ☐ ☐ ☐ ☐ ☐**1** [Network layer access control for context-aware IPv6 applications](#)

Adrian Friday, Maomao Wu, Joe Finney, Stefan Schmid, Keith Cheverst, Nigel Davies

July 2003 **Wireless Networks**, Volume 9 Issue 4Full text available: pdf(3.57 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

As part of the Lancaster GUIDE II project, we have developed a novel wireless access point protocol designed to support the development of next generation mobile context-aware applications in our local environs. Once deployed, this architecture will allow ordinary citizens secure, accountable and convenient access to a set of tailored applications including location, multimedia and context based services, and the public Internet. Our architecture utilises packet marking and network level packet ...

**Keywords:** authentication, mobile IPv6, public access point, security, wireless Internet**2** [URSA: ubiquitous and robust access control for mobile ad hoc networks](#)

Haiyun Luo, Jiejun Kong, Petros Zerfos, Songwu Lu, Lixia Zhang

December 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 6Full text available: pdf(836.70 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Restricting network access of routing and packet forwarding to well-behaving nodes and denying access from misbehaving nodes are critical for the proper functioning of a mobile ad-hoc network where cooperation among all networking nodes is usually assumed. However, the lack of a network infrastructure, the dynamics of the network topology and node membership, and the potential attacks from inside the network by malicious and/or noncooperative selfish nodes make the conventional network access co ...

**Keywords:** mobile ad hoc networks, self-organized access control**3** [Rover: a toolkit for mobile information access](#)

A. D. Joseph, A. F. de Lespinasse, J. A. Tauber, D. K. Gifford, M. F. Kaashoek

December 1995 **ACM SIGOPS Operating Systems Review, Proceedings of the fifteenth ACM symposium on Operating systems principles**, Volume 29 Issue 5Full text available: pdf(2.18 MB) Additional Information: [full citation](#), [references](#), [citing](#), [index terms](#)

#### 4 Access control for mobile agents: The calculus of boxed ambients

Michele Bugliesi, Giuseppe Castagna, Silvia Crafa

January 2004 **ACM Transactions on Programming Languages and Systems (TOPLAS)**,

Volume 26 Issue 1

Full text available:  [pdf\(430.05 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

*Boxed Ambients* are a variant of Mobile Ambients that result from dropping the open capability and introducing new primitives for ambient communication. The new model of communication is faithful to the principles of distribution and location-awareness of Mobile Ambients, and complements the constructs in and out for mobility with finer-grained mechanisms for ambient interaction. We introduce the new calculus, study the impact of the new mechanisms for communication of typing and mobility, ...

**Keywords:** Ambient calculi, access control systems, mobile computation, type safety, type systems

#### 5 Exploiting path diversity in mobile systems: A mechanism for host mobility management supporting application awareness

Arjan Peddemors, Hans Zandbelt, Mortaza Bargh

June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services**

Full text available:  [pdf\(499.48 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Many approaches exist today that address the issues that arise when a mobile node changes its point(s) of attachment to the Internet. Mobile IP takes care of host mobility at the IP layer; others at the transport layer (Mobile SCTP) or at the application layer (SIP with re-invite). In practice, most of these approaches rely on functionality residing on the mobile host that scans, detects and activates the networks available through one or more network interfaces. The mechanism proposed in this pa ...

**Keywords:** application awareness, host mobility, mobility management

#### 6 Escrow techniques for mobile sales and inventory applications

Narayanan Krishnakumar, Ravi Jain

August 1997 **Wireless Networks**, Volume 3 Issue 3

Full text available:  [pdf\(233.62 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We address the design of architectures and protocols for providing mobile users with integrated Personal Information Services and Applications (PISA), such as personalized news and financial information, and mobile database access. We present a system architecture for delivery of PISA based on replicated distributed servers connected to users via a personal communications services (PCS) network. The PISA architecture partitions the geographical coverage area into service areas, analogous to ...

#### 7 Securing wireless applications: ESCORT: a decentralized and localized access control system for mobile wireless access to secured domains

Jiejun Kong, Shirshanka Das, Edward Tsai, Mario Gerla

September 2003 **Proceedings of the 2003 ACM workshop on Wireless security**

Full text available:  [pdf\(401.72 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this work we design and implement ESCORT, a *backward compatible, efficient, and secure* access control system, to facilitate mobile wireless access to secured wireless LANs. In mobile environments, a mobile guest may frequently roam into foreign domains while demanding critical network services. ESCORT provides instant yet secure access to the

mobile guest based on the concept of "escort", which refers to a special network object with four distinct properties: (1) T ...

**Keywords:** decentralized access control, identity privacy, location privacy, mobile privacy, wireless security

8 Location-aware mobile applications based on directory services

Henning Maass

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available:  pdf(421.47 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Location-aware applications are becoming increasingly attractive due to the widespread dissemination of wireless networks and the emergence of small and cheap locating technologies. We developed a location information server that simplifies and speeds up the development of these applications by offering a set of generic location retrieval and notification services to the application. The data model and the access protocols of these services are based on the X.500 directory service and the I ...

9 Efficient Communication: Time bounded medium access control for ad hoc networks

Raymond Cunningham, Vinny Cahill

October 2002 **Proceedings of the second ACM international workshop on Principles of mobile computing**

Full text available:  pdf(137.11 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Most previous work on medium access control (MAC) protocols for wireless ad hoc networks has focused on the twin goals of maximising throughput and minimising average packet delay as required for general-purpose applications. In this paper we describe a new MAC protocol for use in multi-hop ad hoc networks whose goal is to provide, with high probability, time-bounded access to the wireless medium for applications with guaranteed response time requirements. The Time-Bounded Medium Access Control (T ...

**Keywords:** medium access control, mobile ad hoc networks, time bounded

10 Experiences with network-based user agents for mobile applications

Thomas F. La Porta, Thomas Woo, Krishan K. Sabnani, Ramachandran Ramjee

August 1998 **Mobile Networks and Applications**, Volume 3 Issue 2

Full text available:  pdf(631.57 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless networks are characterized by simple end devices and limited bandwidth. One solution to address these and other limitations of the wireless mobile environment that has been widely pursued is the placement of proxies, or agents, inside the network to assist with application processing that would normally take place on end devices. These agents can additionally manipulate data to reduce bandwidth requirements and assist in providing services. The design and implementation of a user a ...

11 A wireless public access infrastructure for supporting mobile context-aware IPv6 applications

Adrian Friday, Maomao Wu, Stefan Schmid, Joe Finney, Keith Cheverst, Nigel Davies

July 2001 **Proceedings of the first workshop on Wireless mobile internet**

Full text available:  pdf(768.12 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a novel wireless access point architecture designed to support the

development of next generation mobile context-aware applications over metropolitan scale areas. In addition, once deployed, this network will allow ordinary citizens secure, accountable and convenient access to the Internet from their local city and campus environments.

The proposed architecture is based on an approach utilising a modified Mobile IPv6 protocol stack that uses packet marking ...

**Keywords:** authentication, mobile IPv6, public access point, security, wireless internet

12 Requirements of role-based access control for collaborative systems

Trent Jaeger, Atul Prakash

December 1996 **Proceedings of the first ACM Workshop on Role-based access control**

Full text available:  pdf(824.83 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



13 Composable ad hoc location-based services for heterogeneous mobile clients

Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5

Full text available:  pdf(403.18 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



14 Separating access control policy, enforcement, and functionality in extensible systems

Robert Grimm, Brian N. Bershad

February 2001 **ACM Transactions on Computer Systems (TOCS)**, Volume 19 Issue 1

Full text available:  pdf(164.03 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)



Extensible systems, such as Java or the SPIN extensible operating system, allow for units of code, or extensions, to be added to a running system in almost arbitrary fashion. Extensions closely interact through low-latency but type-safe interfaces to form a tightly integrated system. As extensions can come from arbitrary sources, not all of whom can be trusted to conform to an organization's security policy, such structuring raises the question of how security constraints are enforced in an ...

**Keywords:** Java, SPIN, access check, auditing, extensible systems, policy-neutral enforcement, protection domain, protection domain transfer, security policy

15 Special session on NOMADS: An architecture to support cooperating mobile embedded systems

Edgar Nett, Stefan Schemmer

April 2004 **Proceedings of the first conference on computing frontiers on Computing frontiers**

Full text available:  pdf(245.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)



There is a sustained trend to embed computer systems in all kinds of intelligent products. Increasing emphasis is given to enhance the functionality of such systems beyond the provision of easy-of-use and comfort to more safety-critical tasks where they exert direct control over the intelligent product. Examples of such systems can be exploited in many domains like team robotics, factory automation, transport systems, and intelligent traffic control. To master the inherent complexity, we present ...



**Keywords:** mobile embedded systems, mobility and adaptivity, modeling of complex systems, service-based architectures, wireless ad-hoc networks

16 Composable ad-hoc mobile services for universal interaction

Todd D. Hodes, Randy H. Katz, Edouard Servan-Schreiber, Lawrence Rowe

September 1997 **Proceedings of the 3rd annual ACM/IEEE international conference on Mobile computing and networking**

Full text available:  pdf(1.86 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

17 Access Control: Design and implementation of a flexible RBAC-service in an object-oriented scripting language

Gustaf Neumann, Mark Strembeck

November 2001 **Proceedings of the 8th ACM conference on Computer and Communications Security**

Full text available:  pdf(177.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

In this paper we present the design and implementation of the xorbac component that provides a flexible RBAC service. The xorbac, implementation conforms to level 4a of the unified NIST model for RBAC and can be reused for arbitrary applications on Unix or Windows with a C or Tcl linkage. xorbac runtime elements can be serialized and recreated from RDF data models conforming to a well-defined RDF schema. Furthermore we present our experiences with xorbac for t ...

**Keywords:** XOTcl, mobile code, object-orientation, role-based access control, scripting language, web-applications

18 System support for pervasive applications

Robert Grimm, Janet Davis, Eric Lemar, Adam Macbeth, Steven Swanson, Thomas Anderson, Brian Bershad, Gaetano Borriello, Steven Gribble, David Wetherall

November 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 4

Full text available:  pdf(1.82 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Pervasive computing provides an attractive vision for the future of computing. Computational power will be available everywhere. Mobile and stationary devices will dynamically connect and coordinate to seamlessly help people in accomplishing their tasks. For this vision to become a reality, developers must build applications that constantly adapt to a highly dynamic computing environment. To make the developers' task feasible, we present a system architecture for pervasive computing, called & ...

**Keywords:** Asynchronous events, checkpointing, discovery, logic/operation pattern, migration, one.world, pervasive computing, structured I/O, tuples, ubiquitous computing

19 Design and analysis of low-power access protocols for wireless and mobile ATM networks

Krishna M. Sivalingam, Jyh-Cheng Chen, Prathima Agrawal, Mani B. Srivastava

January 2000 **Wireless Networks**, Volume 6 Issue 1

Full text available:  pdf(233.13 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper describes the design and analysis of a low&dash;power medium access control

&lpar;MAC&rpar; protocol for wireless/mobile ATM networks. The protocol – denoted EC&dash;MAC &lpar;energy conserving medium access control&rpar; – is designed to support different traffic types with quality&dash;of&dash;service &lpar;QoS&rpar; provisions. The network is based on the infrastructure model where a base station &lpar;BS&rpar; serves all the mobiles currently in its cell. A reserv ...

20 Systems, platforms, and applications: Experimental evaluation of synchronization and topology control for in-building sensor network applications

W. Steven Conner, Jasmeet Chhabra, Mark Yarvis, Lakshman Krishnamurthy

September 2003 **Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications**

Full text available:  pdf(1.24 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

While multi-hop networks consisting of 100s or 1000s of inexpensive embedded sensors are emerging as a means of mining data from the environment, inadequate network lifetime remains a major impediment to real-world deployment. This paper describes several applications deployed throughout our building that monitor conference room occupancy and environmental statistics and provide access to room reservation status. Because it is often infeasible to locate sensors and display devices near power out ...

**Keywords:** synchronization, topology control, wireless sensor networks

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